

ABSTRACT

5 A soft magnetic thin film of CoFe alloy having a high
including cathode and anode compartments which are separated
by a diaphragm or salt bridge so as to permit charge transfer,
but inhibit penetration of Fe ions, feeding a plating
solution containing Co ions and divalent Fe ions to the
10 cathode compartment, feeding an electrolyte solution to the
anode compartment, immersing a substrate in the plating
solution, immersing an anode in the electrolyte solution,
electroplating, and heat treating the plated film at
100-550°C; or by immersing a substrate and a soluble anode in
15 a plating solution containing Co ions and divalent Fe ions,
electroplating, and heat treating the plated film at
100-550°C.